



ENVIRONMENTAL MONITORING DATA

2021

EPL	3393
Licensee Name	Pacific Blue Metal Pty Ltd
Facility Address	113 Possum Brush Road POSSUM BRUSH NSW 2430

BLAST		
Monitored when blasting at R1 and R2		
Parameter	Limit R1	Limit R2
Airblast Overpressure	120dB at any time & 115dB for no more than 5% of blasts	
Peak Particle Velocity	10mm/s at any time & 5mm/s for no more than 5% of blasts	

Month	Date Sampled	Date Obtained	Date Published	R1	R2	Comments
January	-	-	-	-	-	-
February	01/02/21	02/02/21	31/03/21	108.1 dB, 2.27 mm/s	Nil Trigger	-
	23/02/21	24/02/21	31/03/21	99.0 dB, 1.86 mm/s	Nil Trigger	-
March	04/03/21	16/03/21	31/03/21	104.1 dB, 3.24 mm/s	Nil Trigger	-
	15/03/21	16/03/21	31/03/21	Nil Trigger	Nil Trigger	-
April	16/04/21	16/04/21	30/06/21	106.0 dB, 1.72 mm/s	Nil Trigger	-
May	04/05/21	31/08/21	30/09/21	103.8 dB, 3.42mm/s	Nil Trigger	-
	31/05/21	19/07/21	30/09/21	105.4 dB, 1.73 mm/s	Nil Trigger	-
June	-	-	-	-	-	-
July	15/07/21	19/07/21	30/09/21	102.3 dB, 2.99 mm/s	Nil Trigger	-
August	12/08/21	20/08/21	30/09/21	Nil Trigger	Nil Trigger	-
	25/08/21	31/08/21	30/09/21	100.2 dB, 1.28 mm/s	Nil Trigger	-

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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Month	Date Sampled	Date Obtained	Date Published	R1	R2	Comments
September	03/09/21	14/09/21	30/09/21	103.5 dB, 1.68 mm/s	Nil Trigger	-
	15/09/21	30/09/21	30/09/21	99.9 dB, 1.46 mm/s	Nil Trigger	-
October	01/10/21	11/10/21	31/12/21	99.4 dB, 0.84 mm/s	Nil Trigger	-
November	05/11/12	10/11/21	31/12/21	Nil Trigger	Nil Trigger	-
December	03/12/21	06/12/21	31/12/21	101.3 dB, 2.35 mm/s	Nil Trigger	-

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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WATER

Monitored on overflow at Dam 3

Parameter	Limit
pH	6.5 – 8.5
Total Suspended Solids (mg/L)	50
Oil and Grease	None visible

Month	Date Sampled	Date Obtained	Date Published	pH	TSS	Oil & Grease	
January	07/01/21	18/01/21	31/03/21	7.6	9	<5	Received 551.6ml rain in last 4 weeks. First overflow since March 2020.
February	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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NOISE		Monitored Annually at R1, R2 & R3		
Parameter		Limit R1	Limit R2	Limit R3
Day	LA _{eq(15min)} (dBA)	39	38	37
Evening	LA _{eq(15min)} (dBA)	39	38	37
Night	LA _{eq(15min)} (dBA)	39	38	37
Night	LA _{max} (dBA)	45	45	45

The above noise criteria apply under all meteorological conditions except the following:

- Wind speeds greater than 3 metres/second at 10 meters above ground level; or
- Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 meters above ground level; or
- Stability category G temperature inversion conditions.

Month	Date Sampled	Date Obtained	Date Published	Parameter		R1	R2	R3	Comments
December 2021	17/12/21	25/02/22	31/03/22	Day	LA _{eq(15min)} (dBA)	33	<20	<20	Evening and Night noise monitoring not undertaken as there was only very limited Nights Works and either meteorological conditions prevented monitoring or noise monitoring consultants were unavailable. (FILE NOTE)
				Evening	LA _{eq(15min)} (dBA)				
				Night	LA _{eq(15min)} (dBA)				
				Night	LA _{max} (dBA)				

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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NOISE		<p>Monitored Biennially at R4 To determine the noise level of Quarry trucks travelling along Possum Brush Road during night time operations.</p>
Parameter		Limit R3
Night LA _{eq(1hour)} (dBA)		50

Sampling Period	Date Sampled	Date Obtained	Date Published	R3 Night LA _{eq(1hour)} (dBA)	Comments
Biennial 2016-2017	18/07/17	31/07/17	28/09/17	43	-
Biennial 2018-2019	24/09/19	19/10/19	17/12/19	45	-
Biennial 2020-2021	08/07/20	15/07/20	30/09/20	43	-
Biennial 2022-2023	DUE WINTER 2022				

Resident Locations	<p>R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry</p>
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DUST Monitored on request.		
Parameter	Limit R1 g/m²/month	Limit R2 g/m²/month
Deposited dust	4	4

Month	Date Sampled	Date Obtained	Date Published	R1 mg/m²/month	R2 mg/m²/month	Comments
n/a						No Sampling Required

Resident Locations	R1 – Due S of Quarry R2 – NNE of Quarry R3 – ENE of Quarry R4 – Due E of Quarry
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